



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

## INDEX TO NORTH AMERICAN MYCOLOGY.

*Alphabetical List of Articles, Authors, Subjects, New Species and Hosts, New Names and Synonyms.*

(Continued from page 155.)

W. A. Kellerman.

- ACER, wood and bark, host to *Sirothecium nigrum* Morgan n. sp., Jour. Mycol. 9:83. May 1903.
- ACRASIEAE, Dictyostilieae or, *see Dictyostilieae* or . . .
- AECIDIUM aikenii Syd. n. sp., in foliis vivis *Thalictri purpurascantis*. Ann. Mycolog. 1:334. July 1903.
- AECIDIUM claytoniatum Schw., *see Caecoma (Aecidium) claytoniatum* . . .
- AECIDIUM clibadii Syd. n. sp., in foliis vivis *Clibadii donnell-smithii*. Ann. Mycolog. 1:333. July 1903.
- AECIDIUM hibisciutum, The Alternate Form. [*Puccinia muhlenbergiae* Arth.; inoculation experiments.] W. A. Kellerman. Jour. Mycol. 9:109-110. May 1903.
- AECIDIUM hibisciutum Schw., *syn. of Puccinia hibisciata* q. v. .
- AECIDIUM osmorrhizae Peck, *syn. of Puccinia osmorrhizae* q. v.
- AECIDIUM purpusiorum P. Henn. n. sp., an Früchten von *Craetagus*. Beiblatt zur Hedwigia, 42:(189). 4 Juli 1903.
- AESCLUS octrandra, host to *Cercospora aesculina* Ell. & Kellerm. n. sp. Jour. Mycol. 9:105. May 1903.
- AGAVE sp., host to *Hypocrea agaves* Maublanc n. sp. Bull. Soc. Mycolog. de France, 19:292. 1903.
- ANTIRRHINUM vagans, host to *Puccinia antirrhini* Diet. & Holw. Jour. Mycol. 9:81. May 1903.
- APPLE, host to *Hypochnus* sp. undescribed (H. J. Eustace). N. Y. Agr. Exp. Sta. Bull. 235:123-131. Pl. I-IV. July 1903.
- APPLE rot, *see Decays, Two, of Stored Apples*. . .
- ARISTOLOCHIA macrophylla, host to *Cercospora guttulata* Ell. & Kellerm. Jour. Mycol. 9:105. May 1903.
- ARRACACIA hartwegi S. Wats., *see Velaea hartwegi* . . .
- ASCOCHYTA coronaria Ell. & Davis n. sp., on living leaves of *Pyrus coronaria*. Trans. Wisc Acad. Sci. Arts & Let. 14:94 1903.

- ASCOCHYTA lophanthi Davis n. sp., on Lophanthus scrophulariæ-folius Benth. Trans. Wisc. Acad. Sci. Arts & Let. 14:95. 1903.
- ASCOCHYTA rufomaculans (Berk.), *syn. of Glomerella rufomaculans* q. v.
- ASPARAGUS Rust, *see* Rust, *Asparagus* . . .
- BACTERIA and the Nitrogen Problem. George T. Moore. Year book U. S. Dept. Agr. 1902:333-342. Pl. XXXVIII-XLII. 1903.
- BACTERIA of the Soil. N. S. Mayo and A. T. Kinsley. Kansas Exp. Sta. Bull. 117:167-184. May 1903.
- BACTERIOLOGY for High Schools. II. (Methods and directions; illustrations.) W. D. Frost and E. G. Hastings. Jour. Appl. Micr. & Lab. Meth. 6:2270-3. April 1903.
- BACTERIOLOGY for High Schools. III. (Microscopical examination.) W. D. Frost and E. G. Hastings. Jour. Appl. Micr. & Lab. Meth. 6:2383-5. June 1903.
- BACTERIOLOGY for High Schools. IV. (Microscopical examination of Bacteria, continued.) W. D. Frost and E. G. Hastings. Jour. Appl. Micr. & Lab. Meth. 6:2426-8. July 1903.
- BANK, damp among moss, matrix to Scutiger whiteae Murrill n. sp. Bull. Torr. Bot. Club, 30:432. Aug. 1903.
- BITTER Rot of Apples. Hermann von Schrenk and Perley Spaulding. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44: 1-54. Pl. I-VIII. 18 July 1903.
- BITTER-ROT fungus, *see* Fungus, *the Bitter-rot*. . .
- BLASDALE, W. C. On a Rust of the Cultivated Snapdragon. (*Puccinia antirrhini*.) Jour. Mycol. 9:81-2. May 1903.
- BOGUE, E. E. Collecting and Preserving Lichens. Jour. Appl. Micr. & Lab. Meth. 6:2373-4. June 1903.
- BOLETUS betulinus Bull., *syn. of Piptoporus suberosus* q. v. . . .
- BOLETUS fasciatus Sw., *syn. of Elfvvingia fasciata* q. v. . . .
- BOLETUS fomentarius L., *syn. of Elfvvingia fomentaria* q. v. . . .
- BOLETUS laricis Jacq., *syn. of Fomes laricis* q. v. . . .
- BOLETUS suberosus L., *syn. of Piptoporus suberosus* q. v. . . .
- BOLETUS unguulatus Bull., *syn. of Elfvvingia fomentaria* q. v. . . .
- BOTRYOSPORIUM longibrachiatum (Oud.) R. Maire [Botrytis longibrachiata Oud., B. (Polyactis) doryphora Pound et Clements, Botryosporium pulchellum R. Maire, Cephalosporium dendroides Ell. & Kell., nec Botryosporium pyramidale Cost., — sec. R. Maire.] Ann. Mycolog. 1:341. July 1903.

- BOTRYOSPORIUM pyramidale Cost. (B. leucostachys Zopf.) not a synonym of Botryosporium pulchellum [Sec. R. Maire]. Ann. Mycolog. 1:341. July 1903.
- BOTRYOSPORIUM pyramidale Costantin, *syn. of Botryosporium pulchrum* Corda. Jour. Mycol. 9:107. May 1903.
- BOTRYOSPORIUM pulchellum R. Maire, *syn. of Botryosporium longibrachiatum* q. v.
- BOTRYOSPORIUM pulchellum R. Maire, *syn. of Botryosporium pulchrum* Corda. Jour. Mycol. 9:107. May 1903.
- BOTRYTIS longibrachiata Oud., *syn. of Botryosporium longibrachiatum* q. v.
- BOTRYTIS longibrachiata Oudemans, *syn. of Botryosporium pulchrum* Corda. Jour. Mycol. 9:107. May 1903.
- BOTRYTIS (Polyactis) doryphora Pound et Clements, *syn. of Botryosporium longibrachiatum* q. v.
- BOTRYTIS (Polyactis) doryphora Pound & Clements, *syn. of Botryosporium pulchrum* Corda. Jour. Mycol. 9:107. May 1903.
- BROMUS ciliatus L., host to Septoria brevispora Ell. & Davis n. sp. Trans. Wisc. Acad. Sci. Arts & Let. 14:99. 1903.
- BULLETINS 15 & 16, Boston Mycological Club. Hollis Webster, Sec. [Coprinus in U. S., descriptions. Edwin A. Daniels.] June 1901.
- BULLETINS 17 & 18, Boston Mycological Club. Hollis Webster, Sec. [Book Reviews.] December 1901.
- BUTTERS, FRED K. A Minnesota Species of Tuber [T. lyoni Butters n. sp.] Bot. Gaz. 35:427-431, Figs. 1-3. June 1903.
- CAEOMA (Aecidium) claytoniatum Schw., *syn. of Puccinia claytoniata* q. v.
- CALAMAGROSTIS canadensis Beauv., host to Mastigosporium album clavum Ell. & Davis n. var. Trans. Wisc. Acad. Sci. Arts & Let. 14:98. 1903.
- CALTHA leptosepala, host to Puccinia gemella Diet. et Holw. n. sp. Monogr. Uredin. 1:541. 15 May 1903.
- CASSIA lindheimeriae, host to Ravenellia papillifera Syd. n. sp. Ann. Mycolog. 1:330. July 1903.
- CEPHALOSPORIUM dendroides Ell. & Kellerm., *syn. of Botryosporium longibrachiatum* q. v.
- CEPHALOSPORIUM dendroides Ell. & Kellerm., *syn. of Botryosporium pulchrum* Corda. Jour. Mycol. 9:107. May 1903.

- CERCOSPORA aesculina Ell. & Kellerm. n. sp., on leaves of Aesculus octandra. Jour. Mycol. 9:105. May 1903.
- CERCOSPORA, Two New Species of [*C. aesculina* and *C. guttulata*]. J. B. Ellis and W. A. Kellerman. Jour. Mycol. 9:105. May 1903.
- CERCOSPORA guttulata Ell. & Kellerm. n. sp., on leaves of Aristolochia macrophylla. Jour. Mycol. 9:105. May 1903.
- CLIBADIUM donnell-smithii, host to Aecidium clibadii Syd. n. sp. Ann. Mycolog. 1:333. July 1903.
- CLITOCYBE trullisata Ellis. [Popular description and habitat.] Hollis Webster. Boston Mycological Club, Bulletin No. 20. [3 pp. 1 pl.] June 1903.
- CLUB root, Notes upon. Byron D. Halsted and James A. Kelsey. An. Rep. N. J. State Agr. Exp. Sta. 23:398-9. 31 Oct. 1902.
- COLEOSPORIUM elephantopi (Schw.) Thüm., syn. of *Stichopsora elephantopodis* q. v.
- COLEOSPORIUM solidaginis (Schw.) Thüm., syn. of *Stichopsora solidaginis* q. v.
- COLEOSPORIUM vernoniae B. et C., syn. of *Stichopsora vernoniae* q. v.
- COLLETOTRICHUM cinctum B. & C., syn. of *Glomerella cincta* q. v.
- COLLETOTRICHUM rubicolum E. & E., syn. of *Glomerella rubicolor* q. v.
- CONANT, JENNIE F. A list of species of Fungi exhibited at Horticultural Hall, Boston, 1902. Boston Mycological Club, Bulletin No. 19 (4 pp.). 5 Feb. 1903.
- CONTRIBUTIONS to the Biology of RHIZOBIA, see *Rhizobia*. . .
- COPRINUS species in the United States. [Descriptions. Edwin A. Daniels.] Boston Mycological Club. Bulletins 15 & 16 (8 pp.). June 1901.
- CRATAEGUS, fruit, host to Aecidium purpusiorum P. Henn. n. sp. Beiblatt zur Hedwigia, 42:(189). 4 Juli 1903.
- CRYPTOPORUS, see *Polyporaceae of North America*. — V. *The Genera*. . . . .
- CYPHELLA Fr., syn. of *Porodiscus* q. v.
- DANIELS, EDWIN A. Coprinus [of the United States. Descriptions]. Boston Mycological Club, Bull. 15 and 16. June 1901.
- DAVIS, BRADLEY MOORE. Oogenesis in Saprolegnia. Bot. Gaz. 35:233-249, 320-349. Pl. IX-X. April & May 1903.

- DECAYS, Two, of Stored Apples. Another Apple Rot following Scab. [*Hypochnus* sp.?] H. J. Eustace. N. Y. Agr. Exp. Sta. Bull. 235:123-131. July 1903.
- DELACROIX, G. De la tavelure des Goyaves produite par le *Gloeosporium psidii* nov. sp. G. Del. Bull. Soc. Myc. France, 19: 143-5. 30 April 1903.
- DICTYOSTILIEAE or Acrasiaeae. [A critical Review.] A. P. Morgan. Jour. Mycol. 9:84-6. May 1903.
- DISEASE, Cacao [*Exoascus theobroma*, — in Trinidad]. J. H. Hart. Trinidad Bot. Dept. Bull. 38:551. April 1903.
- DISEASES of Broom Corn; Smut, *Sphacelotheca sorghi* and Insect Enemies. Charles P. Hartley. U. S. Dept. Agr. Farmers' Bulletin, 174:26-8. 1903.
- DISEASE, Corn Moulds and, *see Moulds, Corn and*. . . .
- DISEASES, Fungous, *see Fungous Diseases*. . . .
- DISEASES, Fungous, and Spraying, *see Fungous*. . . .
- DISEASES Injurious to Forage Crops. [*Ustilago hypodites*, *scolochloa*, *bromivora*, *striaeformis*, and *Tilletia fusca*.] David Griffiths. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 38: 43-4. 3 July 1903.
- DISEASES, Plant, in the United States in 1902. W. A. Orton. Yearbook U. S. Dept. Agr. 1902:714-9. 1903.
- DISEASES of the Potato in Relation to its Development. L. R. Jones. Trans. Mass. Hort. Soc. 1903:144-154. 1903.
- DISEASE, Rosette, of Potatoes, attributed to the sterile fungus *Rhizoctonia*. A. D. Selby. Ohio Agr. Exp. Sta. Bull. 139: 53-64. f. 1-5. April 1903.
- DOASSANSIA *sagittariae* *confluens* Davis n. forma, on *Sagittaria heterophylla* Ph. Trans. Wisc. Acad. Sci. Arts and Let. 14:92. 1903.
- DURAND, Elias J. The Genus *Sarcosoma* in North America. [Key and descriptions, including two new species.] Jour. Mycol. 9:102-4. May 1903.
- EARLE, F. S. A Key to the North American Species of *Panus*. *Torreya*, 3:86-7. June 1903.
- EARLE, F. S. A Key to the North American Species of *Pluteolus*. *Torreya*, 3:124-5. August 1903.
- ELFVINGIA *fasciata* (Schw.) Murrill n. n. [*Boletus fasciatus* Sw., *Polyporus fasciatus* Fr., *Polyporus sclerodermus* Lev., *Polyporus marmoratus* B. & C., *Fomes fasciatus* Cooke.] Bull. Torr. Bot. Club, 30:299. May 1903.

- ELFVINGIA fomentaria (L.) Murrill n. n. [Boletus fomentarius L., Boletus unguatus Bull., Polyporus fomentarius Fr., Fomes fomentarius Gill.] Bull. Torr. Bot. Club, 30:298. May 1903.
- ELFVINGIA, The Genus (Polyporaceae of North America). William Alphonso Murrill. Bull. Torr. Bot. Club, 30:296-301. May 1903.
- ELFVINGIA, Key to the North American species [Murrill]. Bull. Torr. Bot. Club, 30:297. May 1903.
- ELFVINGIA lionetii (Rolland) Murrill n. n. [Ganoderma lionetii Rolland.] Bull. Torr. Bot. Club, 30:301. May 1903.
- ELFVINGIA megaloma (Lev.) Murrill n. n. [Polyporus megaloma Lév., Polyporus leucophaeus Mont., Fomes megaloma Cooke, Ganoderma leucophaeum Pat.] Bull. Torr. Bot. Club, 30:300. May 1903.
- ELFVINGIA reniformis (Morg.) Murrill n. n. [Polyporus reniformis Morg., Fomes reniformis Sacc.] Bull. Torr. Bot. Club, 30:299. May 1903.
- ELFVINGIA tornata (Pers.) Murrill n. n. [Polyporus tornatus Pers., P. australis Fr., Fomes australis Cooke, Ganoderma australe Pat., Scindalmá tornatum Kuntze.] Bull. Torr. Bot. Club, 30:301. May 1903.
- ELLIS, J. B. and Kellerman, W. A. Two New Species of Cercospora [C. aesculina and C. guttulata]. Jour. Mycol. 9:105. May 1903.
- ENSLINIA pocula Fr., *syn. of Porodiscus pendula* q. v.
- EUPHORBIA calyculata, host to Puccinia euphorbia intumescens Syd, n. var. Monogr. Uredin. 1:457. 15 May 1903.
- EUSTACE, H. J. Two Decays of Stored Apples. Another Apple Rot following Scab. [Hypochnus sp. ?] N. Y. Agr. Exp. Sta. Bull. 235:123-131. Pl. I-IV. July 1903.
- EXOASCUS theobroma [in Trinidad]. J. H. Hart. Trin. Bot. Dept. Bull. 38:551. April 1903.
- FINK, Bruce. Contributions to a Knowledge of the Lichens of Minnesota. — VII. Lichens of the Northern Boundary. Minn. Bot. Studies, 3:167-236. 3 July 1903.
- FINK, Bruce. Some common Types of Lichen Formations. Bull. Torr. Bot. Club, 30:412-8. July 1903.
- FOMES australis Cooke, *syn. of Elfvingia tornata* q. v.
- FOMES fasciatus Cooke, *syn. of Elfvingia fasciata* q. v.
- FOMES fomentarius Gill., *syn. of Elfvingia fomentaria* q. v. . .

- FOMES, The Genus. Polyporaceae of North America. — III.  
William Alphonso Murrill. Bull. Torr. Bot. Club, 30:225-232. April 1903.
- FOMES, Key to the North American Species [Murrill]. Bull. Torr. Bot. Club, 30:225-6. April 1903.
- FOMES laricis (Jacq.) Murrill n. n. [Boletus laricis Jacq.] Bull. Torr. Bot. Club, 30:230. April 1903.
- FOMES megaloma Cooke, *syn. of Elfvigia megaloma* q. v. . .
- FOMES meliae (Underw.) Murrill n. n. [Polyporus meliae Underw.] Bull. Torr. Bot. Club, 30:232. April 1903.
- FOMES ohioensis (Berk.) Murrill n. n. [Trametes ohioensis Berk.] Bull. Torr. Bot. Club, 30:230. April 1903.
- FOMES reniformis Sacc., *syn. of Elfvigia reniformis* q. v. . .
- FOMES rubritinctus Murrill n. sp. Bull. Torr. Bot. Club, 30:232. April 1903.
- FOMES stipitatus Murrill n. sp. Bull. Torr. Bot. Club, 30:229. April 1903.
- FOMES volvatus, synonym of Cryptoporus volvatus (Peck) Shear. Bull. Torr. Bot. Club, 30:424. Aug. 1903.
- FRANSERA ambrosioides, host to Puccinia franserae Syd. n. sp. Ann. Mycolog. 1:326. July 1903.
- FRAXINUS sambucifolia Lam., host to Marsonia fraxini Ell. & Davis n. sp. Trans. Wisc. Acad. Sci. Arts & Let. 14:97. 1903.
- FROST, W. D. & Hastings, E. G. Bacteriology for High Schools. II. [Methods and directions; illustrations.] Jour. Appl. Micr. & Lab. Meth. 6:2270-3. April 1903.
- FROST, W. D. & Hastings, E. G. Bacteriology for High Schools. III. [Microscopical examination.] Jour. Appl. Micr. & Lab. Meth. 6:2383-5. June 1903.
- FROST, W. D. & Hastings, E. G. Bacteriology for High Schools. IV. [Microscopical examination of Bacteria, continued.] Jour. Appl. Micr. & Lab. Meth. 6:2426-8. July 1903.
- FUNGI, A few of the common edible, occurring in the State. Michigan Mushrooms. [General description and illustrations.] B. O. Longyear. Mich. Agr. Exp. Sta. Bull. 208:79-100. April 1903.
- FUNGI, fleshy, a few common of Ames. [Descriptive notes.] Alice W. Hess. Iowa Agr. Exp. Sta. Bull. 61:148-153. 1901.



- FUNGI, Fleshy, Some Suggestions for the Beginner in Collecting and Studying. B. O. Longyear. Jour. Appl. Micr. & Lab. Meth. 6:2369-73. June 1903.
- FUNGI, the Higher, and Lichens. Laboratory Outlines for the Elementary Study of Plant Structures and Functions from the Standpoint of Evolution. John H. Schaffner. Jour. Appl. Micr. & Lab. Meth. 6:2275-7, 2330-2, 2387-8. April, May and June, 1903.
- FUNGI [List of Species exhibited at Horticultural Hall, Boston, 1902.] Jennie F. Conant. Boston Mycological Club, Bulletin No. 19 (4 pp.). 5 Feb. 1903.
- FUNGI on old Logs and Stumps. C. L. Shear. Plant World, 6: 139. Pl. 20. June 1903.
- FUNGI, The Relations of Insects to. Perley Spaulding. Plant World, 6:182-4. August 1903.
- FUNGI as related to Weather. Halsted, Byron D. and Kelsey, James A. [Notes from State Weather and Crop Bulletins.] An. Rep. N. J. State Agr. Exp. Sta. 1902. 23:417-8. 1903.
- FUNGUS Diseases, *see Diseases, Fungous*. . . .
- FUNGUS Diseases, Notes on Some of the Insects and, Affecting Horticultural Crops. [Plowrightia morbosus, Dendrophagus globosus, Peach Yellows, and Peach and Plum Rosette.] Ala. Agr. Exp. Sta. Bull. 124:93-101. May 1903.
- FUNGUS Diseases of Grasses. [Popular Descriptions and figures.] L. H. Pammel and J. B. Weems. Iowa Geological Survey Bull. 1:185-292. 1901.
- FUNGUS Diseases and Spraying. H. H. Lamson. N. H. Agr. Exp. Sta. Bull. 101:55-67. April 1903.
- FUNGUS Enemies of Plants in Nova Scotia. [List.] Halsted, Byron D. and Kelsey, James A. An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:421-2. 1903.
- FUNGUS, Another Much-named. [Cephalosporium dendroides Ell. & Kellerm., syn. of Botryosporium pulchrum Corda.] W. A. Kellerman. Jour. Mycol. 9:100-7. May 1903.
- FUNGUS, the Bitter-rot. [Synonymy.] Hermann von Schrenk, Perley Spaulding. Science, N. S., 17:750-1. 8 May 1903.
- FUNGUS Enemies [of the Apple, Pear and Quince—popular descriptions with illustrations.] F. L. Stevens. N. C. Agr. Exp. Sta. Bull. 183:64-82. April 1903.
- GALL upon a Mushroom. [Omphalia campanella.] Charles Thom. Bot. Gaz. 36:223-5. Sept. 1903.

- GANODERMA australe Pat., *syn. of Elfvigia tornata q. v.* . . .
- GANODERMA leucophæum Pat., *syn. of Elfvigia megaloma q. v.* . .
- GANODERMA lionetii Rolland, *syn. of Elfvigia lionetii q. v.* . .
- GARRETT, A. O. A Provisional List of the Uredineæ of Bourbon County, Kansas. Trans. Kans. Acad. Sci. 18:147-150. 1903.
- GLOEOSPORIUM cingulatum Atk., *syn. of Glomerella cingulata q. v.*
- GLOEOSPORIUM fructigenum (Berk.), *syn. of Glomerella rufomaculans q. v.* . . .
- GLOEOSPORIUM laeticolor (Berk.), *syn. of Glomerella rufomaculans, q. v.*
- GLOEOSPORIUM piperatum E. & E., *syn. of Glomerella piperata q. v.*
- GLOEOSPORIUM psidii G. Del., nov. sp. in epicarpio Psidii pomiferi, Mexico. Bul. Soc. Myc. France, 19:145. 30 April 1903.
- GLOEOSPORIUM psidii nov. sp. G. Del., De la tavelure des Goyaves produite par le. G. Delacroix. Bull. Soc. Myc. France, 19:143-5. 30 April 1903.
- GLOEOSPORIUM rufomaculans (Berk.) von Thüm., *syn. of Glomerella rufomaculans q. v.* . . .
- GLOEOSPORIUM versicolor (Berk. & Curt.), *syn. of Glomerella rufomaculans q. v.* . . .
- GLOMERELLA von Schrenk & Spaulding n. n. [Gnomoniopsis Stoneman.] Science, N. S. 17:750-1. 8 May 1903.
- GLOMERELLA cincta (B. et C.) Spaulding and von Schrenk n. n. [Colletotrichum cinctum B. & C.] U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44:29. 18 July 1903.
- GLOMERELLA cinctum (B. & C.) Spaulding and v. Schrenk n. n. [Colletotrichum cinctum B. & C.] Science, N. S. 17:751-8 May 1903.
- GLOMERELLA cingulata (Atk.) Spaulding and von Schrenk n. n. [Gloeosporium cingulatum Atk.]. Science N. S. 17:751. 8 May 1903. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44:29. 18 July 1903.
- GLOMERELLA piperata (E. & E.) Spaulding and von Schrenk n. n. [Gloeosporium piperatum E. & E.] Science N. S. 17:751. 8 May 1903. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44:29. 18 July 1903.

- GLOMERELLA rubicolor (E. & E.) Spaulding and von Schrenk n. n. [*Colletotrichum rubicolum* E. & E.] Science, N. S. 17: 751. 8 May 1903. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44:29. 18 July 1903.
- GLOMERELLA rubicolum (E. & E.) Spaulding & von Schrenk n. n. [*Gnomoniopsis rubicolum* E. & E.] Science, N. S. 17:751. 8 May 1903.
- GLOMERELLA rufomaculans (Berk.) Spaulding and von Schrenk n. n. [*Septoria rufomaculans* (Berk.) 1854; *Ascochyta rufomaculans* (Berk.) 1860; *Gloesoporum rufomaculans* (Berk.) von Thüm. 1879; *Gl. fructigenum* (Berk.) 1856; *Gl. laticolor* (Berk.) 1859; *Gl. versicolor* (Berk. & Curt.) 1874; *Gnomoniopsis fructigena* (Berk.) Clinton, 1892.] Science, N. S. 17:751. 8 May, 1903.
- GNOMONIOPSIS Stoneman, *syn. of Glomerella q. v.* . . .
- GNOMONIOPSIS fructigena (Berk.) Clinton, *syn. of Glomerella rufomaculans q. v.* . . .
- GRIFFITHS, David. Diseases Injurious to Forage Crops. [*Ustilago hypodites*, *scolochloa*, *bromivora*, *striaeformis*, and *Tilletia fusca*.] U. S. Dept. Agr. Bureau Pl. Industry, Bull. 38:43-4. 3 July 1903.
- HALSTED, Byron D. and Kelsey, James A. The Asparagus Rust. [Notes on distribution.] An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:403-8. 1903.
- HALSTED, Byron D. and Kelsey, James A. Fungous Enemies of Plants in Nova Scotia. [List.] An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:421-2. 1903.
- HALSTED, Byron D. and Kelsey, James A. Fungi as related to Weather. [Notes from State Weather and Crop Bulletins.] An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:417-8. 1903.
- HALSTED, Byron D. and Kelsey, James A. Mildew of Lima Beans. [Notes; *Phytophthora phaseoli* Thax.] An. Rep. N. J. Agr. Exp. Sta. 1902, 399-403. 1903.
- HALSTED, Byron D. and Kelsey, James A. Notes upon Club root. An. Rep. N. J. State Agr. Exp. Sta. 23:398-9. 31 Oct. 1902.
- HALSTED, Byron D. and Kelsey, James A. Notes upon some Rusts and Mildews at Wernersville, Pa. An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:419-420. 1903.
- HARRIS, Carolyn W. Lichens — *Nephroma* — *Solorina*. [Popular descriptions and figures.] Bryologist, 6:76-9. Sept. 1903.
- HARRIS, Carolyn W. Lichens—*Sticta*. [Popular descriptions and figures.] Bryologist, 6:55-7. Pl. IX. July 1903.

- HART, J. H. Cacao Disease (Witches' Broom) [in Trinidad]. Trinidad Bot. Dept. Bull. 38:551. April 1903.
- HARTLEY, Charles P. Diseases [of Broom Corn; Smut, Sphacelotheca sorghi] and Insect enemies. U. S. Dept. Agr. Farmers' Bulletin, 174:26-8. 1903.
- HENDERSON, L. F. Mushrooms or Toadstools: A Natural Food Product. Idaho Agr. Exp. Sta. Bull. 27:27-64. March 1901.
- HESS, Alice W. A few common fleshy Fungi of Ames. [Descriptive notes.] Iowa Agr. Exp. Sta. Bull. 61:148-153. 1901.
- HIERACIUM albiflorum, host to Puccinia sejuncta Syd. n. sp. Ann. Mycol. 1:327. July 1903.
- HYPOCHNUS sp. undescribed (?), an apple rot following scab. [H. J. Eustace.] N. Y. Agr. Exp. Sta. Bull. 235:123-131. Pl. I-IV. July 1903.
- HYPOCREA agaves Maublanc n. sp., in foliis Agave sp. Bull. Soc. Mycol. de France, 19:292. 1903.
- INDEX to North American Mycology, continued. W. A. Kellerman. Jour. Mycol. 9:116-155. May 1903.
- IVESIA unguiculata, host to Phragmidium ivesiæ Syd. n. sp. Ann. Mycol. 1:329. July 1903.
- JONES, L. R. Diseases of the Potato in Relation to its Development. Trans. Mass Hort. Soc. 1903:144-154. 1903.
- KELLERMAN, W. A. The Alternate Form of Aecidium hibiscium. [Puccinia muhlenbergiæ Arth.: inoculation experiments.] Jour. Mycol. 9:109-110. May 1903.
- KELLERMAN, W. A. Another Much-named Fungus. [Cephalosporium dendroides Ell. & Kellerm., syn. of Botryosporium pulchrum Corda.] Jour. Mycol. 9:106-7. May 1903.
- KELLERMAN, W. A. Index to North American Mycology, continued. Jour. Mycol. 9:116-155. May 1903.
- KELLERMAN, W. A. Notes from Mycological Literature. V. Jour. Mycol. 9:155-9. May 1903.
- KELLERMAN, W. A. Ohio Fungi, Fascicle VII. [Labels with the original descriptions, 20 species.] Jour. Mycol. 9:110-6. May 1903.
- KELLERMAN, W. A. Puccinia lateripes B. & Rav. an Aut-eupuccinia. [Inoculation experiments.] Jour. Mycol. 9:107-9. Pl. II. May 1903.
- KELSEY, James A and Halsted, Byron D., see Halsted. . . .

- KEY to the N. A. species of *Elfvigia*, see *Elfvigia*, Key. . . .
- KEY to the N. A. Species of *Fomes*, see *Fomes*, Key. . . .
- KEY to the N. A. Species of *Panus*, see *Panus*, Key. . . .
- KEY to the N. A. species of *Pluteolus*, see *Pluteolus*, Key. . . .
- KEY to the North American species of *Sarcosoma*, see *Sarcosoma*, Key. . . .
- KEY to the North American species of *Scutiger*, see *Scutiger*, Key. . . .
- KINSLEY, A. T. and Mayo, N. S., see *Mayo, N. S., and* . . . .
- LAMSON, H. H. Fungous Diseases and Spraying. N. H. Agr. Exp. Sta. Bull. 101:55-67. April 1903.
- LEAVES of Chestnut and Rhododendron, host to *Sarcosoma cyttarioides* Rehm n. sp. Jour. Mycol. 9:104. May 1903.
- LICHEN Formations, some common Types. Bruce Fink. Bull. Torr. Bot. Club, 30:412-8. July 1903.
- LICHEN Formations, see *Lichens of Minnesota, Contribution VII.* . . . .
- LICHENS, Collecting and Preserving. E. E. Bogue. Jour. Appl. Micr. & Lab. Meth. 6: 2373-4. June 1903.
- LICHENS, The Higher Fungi and, Laboratory Outlines, see *Fungi, higher.*
- LICHENS of Minnesota, Contributions to a Knowledge of. —VII. Lichens of the Northern Boundary. Bruce Fink. Minn. Bot. Studies, 3:167-236. 3 July 1903.
- LICHENS—Nephroma—Solorina. [Popular descriptions and figures.] Carolyn W. Harris. Bryologist, 6:76-9. Sept. 1903.
- LICHENS—Sticta. [Popular descriptions and figures.] Carolyn W. Harris. Bryologist, 6:55-8. Pl. IX. July 1903.
- LINARIA amethystina, host to *Puccinia antirrhini* Diet. & Holw. Jour. Mycol. 9:82. May 1903.
- LINARIA reticulata, host to *Puccinia antirrhini* Diet. & Holw. Jour. Mycol. 9:82. May 1903.
- LONGYEAR, B. O. Michigan Mushrooms. A few of the common edible Fungi occurring in the State. [General description and illustrations.] Mich. Agr. Exp. Sta. Bull. 208: 79-100. April 1903.
- LONGYEAR, B. O. Some Suggestions for the Beginner in Collecting and Studying Fleshy Fungi. Jour. Appl. Micr. & Lab. Meth. 6:2369-73. June 1903.

- LOPHANTHUS scrophulariaefolia Benth., host to Ascochyta lophanthi Davis n. sp. Trans. Wisc. Acad. Sci. Arts & Let. 14:95. 1903.
- MACKINTOSH, R. S. Fungus Diseases, Notes on some of the Insects and, Affecting Horticultural Crops. [Plowrightia morbosa, Dendrophagus globosus, Peach Yellows, and Peach and Plum Rosette.] Ala. Agr. Exp. Sta. Bull. 124:93-101. May 1903.
- MARSONIA fraxini Ell. & Davis n. sp., on leaves of Fraxinus sambucifolia Lam. Trans. Wisc. Acad. Sci. & Let. 14:97. 1903.
- MASTIGOSPORIUM album clavum Ell. & Davis n. var., on Calamagrostis canadensis Beauv. Trans. Wisc. Acad. Sci. Arts & Let. 14:98. 1903.
- MAYO, N. S. and Kinsley, A. T. Bacteria of the Soil. Kansas Exp. Sta. Bull. 117:167-184. May 1903.
- METASTELMA schlechtendalii, host to Puccinia sphærospora Syd. et P. Henn. n. sp. Ann. Mycolog. 1:327. July 1903.
- MICHIGAN Mushrooms, *see Mushrooms, Michigan.* . . .
- MILDEW of Lima Beans. [Notes; Phytophthora phaseoli Thax.] Byron D. Halsted and James A. Kelsey. An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:399-403. 1903.
- MILDEWS, Rusts and, Notes upon some, *see Rusts and.* . . .  
*Discard Mangoose, etc. and substitute:*
- MONGOOSE dung, host to Cephalophora tropica Thaxter n. sp. Bot. Gaz. 35:158. March 1903.
- MOORE, George T. Bacteria and the Nitrogen Problem. Year-book U. S. Dept. Agr. 1902:333-342. Pl. XXXVIII-XLII. 1903.
- MORGAN, A. P. Dictyostilieae or Acrasieae. [A critical Review.] Jour. Mycol. 9:84-6. May 1903.
- MORGAN, A. P. A New Species of Sirothecium. [S. nigrum.] Jour. Mycol. 9:82-3. May 1903.
- MOULDS, Corn, and Disease. [Aspergillus glaucus.] L. H. Pammel and J. B. Weems. Iowa Geological Survey Bull. 1:182-4. 1901.
- MURRILL, William Alphonso. A historical Review of the Genera of the Polyporaceae. Jour. Mycol. 9:87-102. May 1903.
- MURRILL, William Alphonso. Polyporaceae of North America.—III. The Genus Fomes. Bull. Torr. Bot. Club, 30:225-232. April 1903.

- MURRILL, William Alphonso. The Polyporaceæ of North America—IV. The Genus *Elfvigia*. Bull. Torr. Bot. Club, 30:296-301. May 1903.
- MURRILL, William Alphonso. The Polyporaceæ of North America.—V. The Genera *Cryptoporus*, *Piptoporus*, *Scutiger* and *Porodiscus*. Bull. Torr. Bot. Club, 30:423-434. Aug. 1903.
- MUSHROOM, Gall upon, *see Gall upon a.* . . .
- MUSHROOMS, Michigan. A few of the common edible Fungi occurring in the State. [General description and illustrations.] B. O. Longyear. Mich. Agr. Exp. Sta. Bull. 208:79-100. April 1903.
- MUSHROOMS or Toadstools: A Natural Food Product. L. F. Henderson. Idaho Agr. Exp. Sta. Bull. 27:27-64. March 1901.
- MUSHROOMS, *see Toadstools.* . . .
- MYCOLOGICAL Club, Boston. Bulletins 15 & 16. [*Coprinus* of the United States, descriptions. Edwin A. Daniels.] June 1901.
- MYCOLOGICAL Club, Boston. Bulletins 17 & 18. [Book Reviews.] Dec. 1901.
- MYCOLOGY, Index to North American, *see Index to.* . . .
- NEPHROMA, *see Lichens—Nephroma—Solorina.* . . .
- NEUE Pilze, Zwei, aus Ohio, *see Zwei Neue Pilze.* . . .
- NOTES from Mycological Literature. V. W. A. Kellerman. Jour. Mycol. 9:155-9. May 1903.
- NOTES upon some Rusts and Mildews, *see Rusts and.* . . .
- OHIO Fungi, Fascicle VII. W. A. Kellerman. [Labels with the original descriptions, 20 species.] Jour. Mycol. 9:110-6. May 1903.
- ONOCLEA sensibilis, host to *Uredinopsis americana* Syd. n. sp. Ann. Mycolog. 1:325. July 1903.
- ORTON, W. A. Plant Diseases in the United States in 1902. Yearbook U. S. Dept. Agr. 1902:714-9. 1903.
- OUTLINE of the History of Leguminous root Nodules and Rhizobia, *see Rhizobia.* . . .
- PAMMEL, L. H. and Weems, J. B. Bacterial Diseases (in Grasses of Iowa.) Iowa Geolog. Surv. Bull. 1:281-292. 1901.
- PAMMEL, L. H. and Weems, J. B. Fungus Diseases of Grasses. [Popular Descriptions and figures.] Iowa Geolog. Surv. Bull. 1:185-281. 1901.

- PAMMEL, L. H. and Weems, J. B. Corn Moulds and Disease. [Aspergillus glaucus.] Iowa Geological Survey Bull. 1: 182-4. 1901.
- PANUS, Key to the North American Species [Earle]. Torrey, 3:86-7. June 1903.
- PEZIZA pendula Schw., *syn. of Porodiscus pendula* q. v.
- PEZIZA singularia Peck, *see Pseudopeziza singularia*.
- PHRAGMIDIUM ivesiæ Syd. n. sp., in foliis vivis Ivesiæ unguiculatæ. Ann. Mycolog. 1:329. July 1903.
- PHRAGMIDIUM potentillæ-canadensis Diet. n. sp., on Potentilla canadensis. Beiblatt zur Hedwigia, 42:(179). 4 July 1903.
- PHYCOMYCES NITENS, formation of spores, *see Spores, Formation*. . . .
- PHYCOMYCETES, four, showing various habits. Laboratory Outlines for the Elementary Study of Plant Structures and Functions from the Standpoint of Evolution. John H. Schaffner. Jour. Appl. Micr. & Lab. Meth. 6:2185-6. Feb. 1903.
- PILZE, Zwei, aus Ohio, *see Zwei neue Pilze*. . . .
- PIPTOPORUS, *see Polyporaceæ of North America.—V. The Genera*. . . .
- PIPTOPORUS betulinus Karst., *syn. of Piptoporus suberosus* q. v. . . .
- PIPTOPORUS suberosus (L.) Murrill n. n. [Boletus suberosus L., B. betulinus Bull., Polyporus betulinus Fr., Piptoporus betulinus Karst.] Bull. Torr. Bot. Club, 30:425. Aug. 1903.
- PLUTEOLUS, A Key to the North American Species. F. S. Earle. Torrey, 3:124-5. Aug. 1903.
- POLYPORACEÆ of North America.—III. The Genus Fomes. William Alphonso Murrill. Bull. Torr. Bot. Club, 30:225-232. April 1903.
- POLYPORACEÆ of North America.—IV. The Genus Elfvingia. William Alphonso Murrill. Bull. Torr. Bot. Club, 30:296-301. May 1903.
- POLYPORACEÆ of North America.—V. The Genera Cryptoporus, Piptoporus, Scutiger and Porodiscus. William Alphonso Murrill. Bull. Torr. Bot. Club, 30:423-434. Aug. 1903.
- POLYPORACEÆ, A historical Review of the genera of the. William Alphonso Murrill. Jour. Mycol. 9:87-102. May 1903.



- POLYPORUS australis Fr., *syn. of Elfvíngia tornata q. v.* . . .
- POLYPORUS betulinus Fr., *syn. of Piptoporus suberosus q. v.* . . .
- POLYPORUS caeruleoporus Peck, *syn. of Scutiger caeruleoporus q. v.* . . .
- POLYPORUS cryptoporus Ell. & Barth., *syn. of Scutiger cryptoporus q. v.* . . .
- POLYPORUS cupulaeformis B. & C., *syn. of Porodiscus pendula q. v.* . . .
- POLYPORUS decurrens Underw., *syn. of Scutiger decurrens q. v.*
- POLYPORUS earlei Underw., *syn. of Scutiger griseus q. v.* . . .
- POLYPORUS ellisii Berk., *syn. of Scutiger ellisii q. v.* . . .
- POLYPORUS fasciatus Fr., *syn. of Elfvíngia fasciata q. v.* . . .
- POLYPORUS flavosquamosus Underw., *syn. of Scutiger ellisii q. v.*
- POLYPORUS fomentarius Fr., *syn. of Elfvíngia fomentaria q. v.*
- POLYPORUS griseus Peck, *syn. of Scutiger griseus q. v.* . . .
- POLYPORUS holocyaneus Atk., *syn. of Scutiger holocyaneus q. v.*
- POLYPORUS kansensis Ell. & Barth., *syn. of Scutiger radicans q. v.* . . .
- POLYPORUS leucophaeus Mont., *syn. of Elfvíngia megaloma q. v.*
- POLYPORUS marmoratus B. & C., *syn. of Elfvíngia fasciata q. v.*
- POLYPORUS megaloma Lév., *syn. of Elfvíngia megaloma q. v.* .
- POLYPORUS meliae Underw., *syn. of Fomes meliae q. v.* . . .
- POLYPORUS morgani Peck, *syn. of Scutiger radicans q. v.* . . .
- POLYPORUS obvolutus Berk. & Cooke, synonym of *Cryptoporus volvatus* (Peck) Shear. Bull. Torr. Bot. Club, 30:424. Aug. 1903.
- POLYPORUS persicinus B. & C., *syn. of Scutiger persicinus q. v.*
- POLYPORUS pocula B. & C., *syn. of Porodiscus pendula q. v.* . .
- POLYPORUS radicans Schw., *syn. of Scutiger radicans q. v.* . .
- POLYPORUS reniformis Morg., *syn. of Elfvíngia reniformis q. v.*
- POLYPORUS retipes Underw., *syn. of Scutiger retipes q. v.* . . .
- POLYPORUS sclerodermus Lév., *syn. of Elfvíngia fasciata q. v.* .
- POLYPORUS tornatus Pers., *syn. of Elfvíngia tornata q. v.* . . .
- POLYPORUS volvatus Peck, *syn. of Cryptoporus volvatus q. v.* .
- POLYPORUS volvatus torreyi Ger., *syn. of Cryptoporus volvatus torreyi q. v.* . . .

PORODISCUS, *see* *Polyporaceae of North America*. — V. *The Genera*. . . .

PORODISCUS Murrill n. gen. [*Polyporus pocula* (Schw.) B. & C., the type.] Bull. Torr. Bot. Club, 30:432. Aug. 1903.

PORODISCUS pendula (Schw.) Murrill n. n. [*Peziza pendula* Schw., *Cyphella pendula* Fr., *Sphaeria pocula* Schw., *Enslinia pocula* Fr., *Polyporus pocula* B. & C., *Polyporus cupulaeformis* B. & C.] Bull. Torr. Bot. Club, 30:433. Aug. 1903.

POTENTILLA canadensis, host to *Phragmidium potentillae-canadensis* Diet. n. sp. Beiblatt zur Hedwigia, 42:(179). 4 July 1903.

PSEUDOPEZIZA singularia Peck *in litt.* [*Peziza singularia* Peck.] Trans. Wisc. Acad. Sci. Arts Let. 14:94. 1903.

PSIDIUM pomiferum, host to *Gloeosporium psidii* G. Del. n. sp. Bull. Soc. Myc. France. 19:145. 30 April 1903.

PUCCINIA antirrhini Diet. & Holw., occurring on *Antirrhinum majus* and *A. vagans*, also *Linaria reticulata* and *L. amethystina*. [Blasdale.] Jour. Mycol. 9:81-2. May 1903.

PUCCINIS bupleuri Berk. Grev. 1874, *syn. of Puccinia osmorrhizae* q. v.

PUCCINIA chaerophylli Transzsch. F. Ross. 217, *syn. of Puccinia osmorrhizae* q. v.

PUCCINIA claytoniata (Schw.) Syd. n. n. [*Caeoma* (*Aecidium*) *claytoniatum* Schw., *Puccinia mariae-wilsoni* Clint.] Monogr. Uredin. 1:561. 15 May 1903.

PUCCINIA congregata Hark., *syn. of Puccinia heucherae* (Schw.) Diet. [Sec. Syd.] Monogr. Uredin. 1:498. 15 May 1903.

PUCCINIA coulterophyta Diet. & Holw., *syn. of Puccinia prionosciadii* q. v. . . .

PUCCINIA euphorbiae intumescens Syd. n. var., in foliis vivis. *Euphorbiae calyculatae*. Monogr. Uredin. 1:457. 15 May 1903.

PUCCINIA franserae Syd. n. sp., in foliis vivis *Franserae ambrosioidis*. Ann. Mycolog. 1:326. July 1903.

PUCCINIA gemella Diet. et Holw. n. sp., in foliis *Calthae leptosepalae*. Monogr. Uredin. 1:541. 15 May 1903.

PUCCINIA hibisciata (Schw.) Kellerman n. n. [*Aecidium hibisciatum* Schw., *Puccinia windsoriae* Burr. non Schw., *Puccinia muhlenbergiae* Arth.] Jour. Mycol. 9:110. May 1903.

- PUCCINIA jonesii Farl. & Seym. Host Index, 203, 1888, synonym of *Puccinia musenii* Ell. & Ev. [Lindroth.] Acta Soc. Faun. et Fl. Fenn. 22:75. 1902.
- PUCCINIA jonesii Aut. p. p., *syn. of Puccinia lindrothii q. v.* . . .
- PUCCINIA lateripes B. & Rav. an Aut-eu-puccinia. [Inoculation experiments.] W. A. Kellerman. Jour. Mycol. 9:107-9. Pl. II. May 1903.
- PUCCINIA lindrothii Syd. n. sp. (*Puccinia jonesii* Aut. p. p.) on *Velæa hartwegi* (A. Gr.) Clt. & Rs. (*Arracacia hartwegi* S. Wats.) Acta Soc. Faun. et Fl. Fenn. 22:62. 1902.
- PUCCINIA mariae-wilsoni Clint., *syn. of P. claytoniata q. v.* . . .
- PUCCINIA muhlenbergiae Arth., *syn. of Puccinia hibisciata q. v.*
- PUCCINIA myrrhis Peck 25th Rep., *syn. of Puccinia osmorrhizae q. v.*
- PUCCINIA osmorrhizae (Peck) Lindroth. [*Aecidium osmorrhizae* Peck, *Puccinia myrrhis* Peck 25th Rep., *P. chaerophylli* Tranzsch. F. Ross 217, *P. bupleuri* Berk. Grev. 1874, *P. pimpinellae* Aut. p. p.] Acta Soc. Faun. et Fl. Fenn. 22:17. 1902.
- PUCCINIA nigrescens Peck, aecidial stage. [Description; "has not been previously reported in America." A. O. Garrett.] Trans. Kansas Acad. Sci. 18:148. 1903.
- PUCCINIA notabilis Tracy & Earle, *syn. of P. splendens q. v.* . . .
- PUCCINIA pimpinellae Aut. p. p., *syn. of Puccinia osmorrhizae q. v.*
- PUCCINIA sejuncta Syd. n. sp., in foliis vivis *Hieracii albiflori*. Ann. Mycolog. 1:326. July 1903.
- PUCCINIA seymourii Lindr., synonym of *Puccinia musenii* Ell. & Ev. [Lindroth.] Acta Soc. Faun. et Fl. Fenn. 22:75. 1902.
- PUCCINIA simplex Peck, *syn. of Puccinia solitaria q. v.* . . .
- PUCCINIA sphaerospora Syd. et P. Henn. n. sp., in foliis vivis *Metastelmatis schlechtendalii*. Ann. Mycolog. 1:327. July 1903.
- PUCCINIA sphalerocondra Lindroth n. sp., on *Velæa arguta* (Torr. & Gr.) Clt. & Rs. Acta Soc. Faun. et Fl. Fenn. 22:63. 1902.
- PUCCINIA splendens Vize. [*Puccinia notabilis* Tracy & Earle.] Ann. Mycolog. 1: 328. July 1903.
- PUCCINIA solitaria Syd. n.n. [*Puccinia simplex* Peck.] Monogr. Uredin. 1:483. 15 May 1903.

- PUCCINIA windsoriae Burr. non Schw., *syn. of Puccinia hibiscata* q. v. . . .
- PYRUS coronaria, host to Ascochyta coronaria Ell. & Davis n. sp. Trans. Wisc. Acad. Sci. Arts & Let. 14:94 1903.
- RAMULARIA waldsteiniae Ell. & Davis n. sp., on leaves of Waldsteinia fragarioides Tratt. Trans. Wisc. Acad. Sci. Arts & Let. 14:99. 1903.
- RAMULARIA waldsteiniae Ell. & Davis n. sp., on leaves of Waldeimeriae. Ann. Mycolog. 1:330. July 1903.
- RELATIONS of Insects to Fungi, *see Fungi, The Relations* . . .
- RHIZOBIA, Contributions to the Biology of. III; Notes on the Winter and early Spring conditions of Rhizobia and Root Tubercles. Albert Schneider. Bot. Gaz. 36:64-7. July 1903.
- RHIZOBIA, Outline of the history of Leguminous root Nodules and, with titles of literature concerning the Fixation of free Nitrogen by Plants, — III. Albert Schneider. Minn. Bot. Studies, 3:133-9. 3 July 1903.
- RHIZOBIA and root Tubercles. [Winter and early Spring conditions of. Schneider.] Bot. Gaz. 36:64-7. July 1903.
- RHIZOCTONIA, A Rosette Disease of Potatoes attributed to, *see Selby, A. D., A Rosette Disease.*
- RHIZOPUS nigricans, formation of spores, *see Spores, Formation.*
- ROT, Bitter, of Apples [Glomerella rufomaculans], *see Bitter Rot* . . .
- RUST, Asparagus. [Notes on distribution.] Halsted, Byron D. and Kelsey, James A. An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:403-8. 1903.
- RUST of the Cultivated Snapdragon. [Puccinia antirrhini.] W. C. Blasdale. Jour. Mycol. 9:81-2. May 1903.
- RUSTS and Mildews, Notes upon some, at Wernersville, Pa. Halsted, Byron D. and Kelsey, James A. An. Rep. N. J. State Agr. Exp. Sta. 1902, 23:419-420. 1903.
- SAGITTARIA heterophylla Ph., host to Doassansia sagittariae confluens Davis n. forma. Trans. Wisc. Acad. Sci. Arts & Let. 14:92. 1903.
- SAPROLEGNIA, Oogenesis in. Bradley Moore Davis. Bot. Gaz. 35:233-249, 320-349. Pl. IX-X. April and May 1903.
- SARCOSOMA carolinianum Durand n. sp., attached to dead sticks among leaves, on damp wooded slopes. Jour. Mycol. 9:103. May 1903.

- SARCOSOMA cyttarioides Rehm n. sp., on dead stems of Kalmia, Oak; on leaves of Chestnut, Rhododendron; also on living stems of Kalmia and Chestnut. Jour. Mycol. 9:104. May 1903.
- SARCOSOMA, The Genus in North America. [Key and descriptions, including two new species.] Elias J. Durand. Jour. Mycol. 9:102-4. May 1903.
- SARCOSOMA, Key to the North American species [Durand]. Jour. Mycol. 9:102. May 1903.
- SCHAFFNER, John H. Laboratory Outlines for the Elementary Study of Plant Structures and Functions from the Standpoint of Evolution. The Higher Fungi and Lichens. Jour. Appl. Micr. & Lab. Meth. 6:2275-7, 2330-2, 2387-8. April, May, June 1903.
- SCHNEIDER, Albert. Contributions to the Biology of Rhizobia. III; Notes on the Winter and early Spring conditions of Rhizobia and root Tubercles. Bot. Gaz. 36:64-7. July 1903.
- SCHNEIDER, Albert. Outline of the history of Leguminous Nodules and Rhizobia, with titles of Literature concerning the Fixation of free Nitrogen by Plants. — III. Minn. Bot. Studies, 3:133-9. 3 July 1903.
- SCHRENK, Hermann von, and Spaulding, Perley. The Bitter-rot Fungus. [Synonymy.] Science, N. S. 17:750-1. 8 May 1903.
- SCHRENK, Hermann von, and Spaulding, Perley. The Bitter Rot of Apples. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 44:1-54 Pl. I-VIII. 18 July 1903.
- SCINDALMA tornatum Kuntze, *syn. of Elfvingia tornata* q. v. . .
- SCLEROSPORA graminicola, Notes on. [Distribution.] Frank Lincoln Stevens. Jour. Mycol. 9:13. Feb. 1903.
- SCUTIGER, *see Polyporaceae of North America. — V. The Genera.*
- SCUTIGER caeruleoporus (Peck) Murrill n. n. [Polyporus caeruleoporus Peck.] Bull. Torr. Bot. Club, 30:429. Aug. 1903.
- SCUTIGER cryptoporus (Ell. & Barth.) Murrill n. n. [Polyporus cryptoporus Ell. & Barth.] Bull. Torr. Bot. Club, 30:428. Aug. 1903.
- SCUTIGER decurrens (Underw.) Murrill n. n. [Polyporus decurrens Underw.] Bull. Torr. Bot. Club, 30:428. Aug. 1903.
- SCUTIGER ellisii (Berk.) Murrill n. n. [Polyporus ellisii Berk., Polyporus flavosquamosus Underw.] Bull. Torr. Bot. Club, 30:427. Aug. 1903.

- SCUTIGER griseus (Peck) Murrill n. n. [Polyporus griseus Peck, Polyporus earlei Underw.] Bull. Torr. Bot. Club, 30:431. Aug. 1903.
- SCUTIGER holocyaneus (Atk.) Murrill n. n. [Polyporus holocyaneus Atk.] Bull. Torr. Bot. Club, 30:429. Aug. 1903.
- SCUTIGER, Key to the North American species [Murrill]. Bull. Torr. Bot. Club, 30:426-7. Aug. 1903.
- SCUTIGER laeticolor Murrill n. sp., growing unattached in soil rich in humus. Bull. Torr. Bot. Club, 30:429. Aug. 1903.
- SCUTIGER persicinus (B. & C.) Murrill n. n. [Polyporus persicinus B. & C.] Bull. Torr. Bot. Club, 30:431. Aug. 1903.
- SCUTIGER radicans (Schw.) Murrill n. n. [Polyporus radicans Schw., P. morgani Peck, P. kansensis Ell. & Barth.] Bull. Torr. Bot. Club, 30:430. Aug. 1903.
- SCUTIGER retipes (Underw.) Murrill n. n. [Polyporus retipes Underw.] Bull. Torr. Bot. Club, 30:428. Aug. 1903.
- SCUTIGER subradicans Murrill n. sp., attached to decaying wood beneath the soil. Bull. Torr. Bot. Club, 30:430. Aug. 1903.
- SCUTIGER whiteae Murrill n. sp., growing among moss on a damp river bank. Bull. Torr. Bot. Club, 30:432. Aug. 1903.
- SELBY, A. D. A Rosette Disease of Potatoes, attributed to the sterile fungus Rhizoctonia. Ohio Agr. Exp. Sta. Bull. 139: 53-64. f. 1-5. April 1903.
- SEPTORIA brevispora Ell. & Davis n. sp., on leaves of Bromus ciliatus L. Trans. Wisc. Acad. Sci. Arts & Let. 14:99. 1903.
- SEPTORIA rufomaculans (Berk.), *syn. of Glomerella rufomaculans* q. v. . . .
- SEYMOUR, A. B. A Series of Specimens illustrating North American Ustilagineae. Jour. Mycol. 9:83-4. May 1903.
- SHEAR, C. L. Fungi on old Logs and Stumps. Plant World, 6:139. Pl. 20. June 1903.
- SIROTHECIUM, A New Species. [S. nigrum.] A. P. Morgan. Jour. Mycol. 9:82-3. May 1903.
- SIROTHECIUM nigrum Morgan n. sp., on wood and bark of Acer. Jour. Mycol. 9:82. May 1903.
- SOIL rich in humus, matrix for Scutiger laeticolor Murrill n. sp. Bull. Torr. Bot. Club, 30:429. Aug. 1903.
- SOLORINA, *see Lichens* — *Nephroma* — *Solorina* . . . .

- SPAULDING, Perley. The Relations of Insects to Fungi. Plant World, 6:182-4. August 1903.
- SPHACELOTHECA sorghi, [Diseases of Broom Corn], *see Diseases of* . . . .
- SPHAERIA pocula Schw., *syn. of Porodiscus pendula* q. v. . . .
- SPORES, Formation of, in the sporangia of *Rhizopus nigricans* and of *Phycomyces nitens*. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 37:1-40. Pl. I-VI. 27 June 1903.
- STEMS of Kalmia, Oak, Chestnut, hosts to *Sarcosoma cyttarioides* Rehm n. sp. Jour. Mycol. 9:104. May 1903.
- STEVENS, F. L. Fungus Enemies [of the Apple, Pear, and Quince—popular descriptions with illustrations.] N. C. Agr. Sta. Bull. 183:64-82. April 1903.
- STICHOPSORA elephantopodis (Schw.) Diet. n. n. [*Coleosporium elephantopi* (Schw.) Thüm.] Beiblatt zur Hedwegia, 42:(181). 4 July 1903.
- STICHOPSORA solidaginis (Schwein.) Diet. n. n. [*Coleosporium solidaginis* (Schw.) Thüm.] Beiblatt zur Hedwegia, 42:(181). 4 July 1903.
- STICHOPSORA vernoniae (B. & C.) Diet. n. n. [*Coleosporium vernoniae* B. & C.] Beiblatt zur Hedwegia, 42:(179). 4 July 1903.
- STICKS, dead, among leaves, host to *Sarcosoma carolinianum* Durand n. sp. Jour. Mycol. 9:103. May 1903.
- STICTA, *see Lichens — Sticta* . . . .
- SWINGLE, Deane B. Formation of the spores in the sporangia of *Rhizopus nigricans* and of *Phycomyces nitens*. U. S. Dept. Agr. Bureau Pl. Industry, Bull. 37:1-40. Pl. I-VI. 27 June 1903.
- THALICTRUM purpurascens, host to *Aecidium aikenii* Syd. n. sp. Ann. Mycolog. 1:334. July 1903.
- THEKOPSORA laeviuscula (Diet. et Hol.) Diet. et Hol. n. n. [*Uredo laeviuscula* Diet. et Hol.] Ann. Mycolog. 1:416. Sept. 1903.
- THOM, Charles. Gall upon a Mushroom. [*Omphalia campanella*.] Bot. Gaz. 36:223-5. Sept. 1903.
- TOADSTOOLS, *see Mushrooms*. . . .
- TRAMETES ohioensis Berk, *syn. of Fomes ohioensis* q. v. . . .
- TUBER lyoni Butters n. sp. Bot. Gaz. 35:431. June 1903.

- TUBER, A Minnesota Species of. [T. lyoni Butters n. sp.] Fred. K. Butters. Bot. Gaz. 35:427-431. Figs. 1-3. June 1903.
- UREDINEÆ of Bourbon County, Kansas, A provisional List of. A. O. Garrett. Trans. Kansas Acad. Sci. 18:147-150. 1903.
- UREDINOPSIS americana Syd. n. sp., in foliis vivis Onocleæ sensibilis. Ann. Mycolog. 1:325. July 1903.
- UREDIO laeviuscula Diet. et Hol., *syn. of Thekopsora laeviuscula* q. v.
- UREDIO pluchæ Syd. n. sp., in foliis vivis Pluchæ camphoratæ. Ann. Mycolog. 1:330. July 1903.
- USTILAGINEÆ, A Series of Specimens illustrating. A. B. Seymour. Jour. Mycol. 9:83-4. May 1903.
- VELÆA arguta (Torr. & Gr.) Clt. & Rs., host to Puccinia sphaeroconcha Lindroth n. sp. Acta Soc. Faun. et Fl. Fenn. 22:63. 1902.
- VELÆA hartwegi (A. Gr.) Clt. & Rs., host to Puccinia lindrothii Syd. r. sp. Acta Soc. Faun. et Fl. Fenn. 22:63. 1902.
- WALDSTEINIA fragarioides Tratt., host to Ramularia waldsteiniae Ell. & Davis n. sp. Trans. Wisc. Acad. Sci. Arts & Let. 14:99. 1903.
- WEBSTER, Hollis. Clitocybe trullisata Ellis. [Popular description and habitat.] Boston Mycological Club, Bulletin No. 20. [3 pp. 1 pl.] June 1903.
- WEEMS, J. B. and Pammel, L. H., *see Pammel, L. H. and . . .*
- WOOD, decaying, beneath the soil, host to Scutiger subradicatus Murrill n. sp. Bull. Torr. Bot. Club, 30:431. Aug. 1903.

---

## NOTES FROM MYCOLOGICAL LITERATURE. VI.

W. A. KELLERMAN.

PROFESSOR J. H. SCHAFFNER FURNISHES ANOTHER INSTALLMENT of his Laboratory Outlines for the elementary study of Plant Structures and Functions from the standpoint of evolution, namely, the Higher Fungi and Lichens, in the Journal of Applied Microscopy, 6:2275-7, April 1903. The subjects are: Saccharomyces cerevisiae Meyen, Beer and Bread Yeast; Morchella esculenta (L.) Pers., Morel; Aspergillus herbariorum (Wigg.) Fisch., Common Green Mould; Uncinula salicis (DC.) Wint.; and Ustilago maydis (DC.) Tul.